### JAWORSKI, MARK

From:

Heller, Donald <heller.donald@epa.gov>

Sent:

Wednesday, April 29, 2015 9:47 AM

To:

JAWORSKI, MARK

Subject:

Allison transmission well logs

**Attachments:** 

MW-1003-S3.pdf; MW-1105-S3-4.pdf

With some assistance from GM, here are the logs.

MW-1003-S3 comes from "Supplement No. 2 to RCRA Facility Investigation: Vermont Street Investigation Data Report" May 2010

MW-1105-S3/4 comes from "Evaluation of Chlorinated Volatile Organic Compounds South of Allison Transmission Plant 12" August 17, 2011



# **WELL CONSTRUCTION LOG**

WELL NO.:

MW-1003-S3

TOTAL DEPTH: **55.00** 

### PROJECT INFORMATION

SITE LOCATION:

PROJECT:

**GM/ENCORE** (Allison Transmission)

Speedway, IN

LOGGED BY:

**Tim Porter** 

DATE STARTED:

4/8/2010

DATE COMPLETED: 4/14/2010

DRILLING CO.:

WDC

DRILLER:

Tom Minor

**DRILLING INFORMATION** 

DRILLING METHOD: Sonic

COORDINATES:

Northing:

1648812

Easting:

169308.4

	,	·	TOC Elevation: 719.76				
DEPTH	SOIL SYMBOLS	SOIL DESCRIPTION	SAMPLE ID	SUDAN PID IV (ppm	WELL CONSTRUCTION DETAILS	ON	
0							
0-		CLAYEY SILT: Very dark grayish brown (10YR 3/2), ML, CLAYEY SILT with few sands, sl. moist, many roots, organic matter.	MW-1003-S3-01 MW-1003-S3-02	0	Flush Mount PVC sch 40 bent-cement gro	out	
5-		SANDY CLAY: Dark yellowish brown (10YR 4/4), SC, SANDY CLAY with silt, sl. moist, sl. plastic.	MW-1003-83-03 MW-1003-83-04	0.3			
-		SAND: Dark yellowish brown (10YR 4/4), SM, silty clayey SAND, sl. moist, loose. 5.5 ft yellowish	MW-1003-S3-05	0			
10-		brown (10YR 5/4), SM, med-coarse sand, few-common gravels, trace cobbles, sl. moist-moist,	MW-1003-53-06	0			
		loose.	MW-1003-S3-07	0			
15 -		SAND: (cont.) Increase in moisture (very moist-wet)	MW-1003-S3-08	0			
		from 6.0-7.0 ft. and 11.0-12.5 ft. 15.0-20.0 ft: wet, loose, SM-SP, med-coarse sands and gravels, few	MW-1003-S3-09	0			
		cobbles. 20.0-22.0 ft.: dry-sl. moist.	MW-1003-S3-10	0			
20-		SILT: Yellowish brown (10YR 5/4), SM-ML, fine- sandy clayey SILT, wet, loose, few coarse sands, few	MW-1003-S3-11	0			
		gravels, soft. 24.2-24.5 ft.: increase in coarse sand and gravel content, stratified, sl. moist.	MW-1003-S3-12	0			
25		SAND: Brown (10YR 5/3), SM, fine-med SAND,	MW-1003-53-13	0			
		few coarse sands, few gravels, wet, loose 25.0-30.5 ft.: grain size increasing (SM-SP), wet, med-coarse	MW-1003-S3-14	0			
30 -		sands and gravels. 29-30.5 ft.: color change to yellowish brown (10YR 5/6), wet, loose, many	MW-1003-s3-15 MW-1003-s3-16	0			
		gravels, few cobbles	MW-1003-S3-17				
35 -		CLAYEY SILT: Yellowish brown (10YR 5/4), ML- CL, dense, sl. moist, few coarse sands, few gravels. 31.0-33.0 ft.: color change to gray (10Yr 5/1).	MW~1003~S3-17	0			
			MW-1003-S3-19	0			
		SAND: Yellowish brown (10YR 5/4), SM, fine-med SAND, few coarse sands, wet, loose. 37.0-38.0 ft.:	MW-1003-53-20	0			
40-		grain size increase (med-coarse sands, common gravels), wet.	MW-1003-S3-21	0			
		CLAYEY SILT: Gray (10YR 5/1), ML-CL, dense, sl.	MW-1003-53-22				
45-		moist, sl. soft, few coarse sands, few gravels, becoming more firm (less soft) with depth and less	MW-1003-s3-23	0	bentonite-chips		
"		moist (dry).	MW-1003-S3-24	0			
1		SAND: Gray (10YR 5/1), SM, very fine-med SAND, few coarse sands, wet, loose. 47.0-48.0 ft.: grayish	MW-1003-S3-25	0	sand pack		
50		brown (10YR 5/2). 48.0-53.0 ft.: brown (10YR 5/3), med-coarse sands, common gravels.	MW-1003-53-26	0	PVC sch 40		
1		CLAYEY SILT: Gray (10YR 5/1), ML-CL, dense, sl. moist, sl. soft, few coarse sands, few grayels. EOB	MW-1003-53-27	0			
55 🗕 🖺		@55.0 ft.	MW-1003-S3-28	0	'El '		



## WELL CONSTRUCTION LOG

WELL NO.:

MW-1105-S3/4

TOTAL DEPTH: 95.00

PROJECT INFORMATION

DRILLING INFORMATION

PROJECT:

GM/ENCORE (Allison Transmission)

DRILLING CO.:

WDC

SITE LOCATION:

Speedway, IN

DRILLER:

**Russ Knotts** 

LOGGED BY:

Randall Woodruff and Tim PorteDRILLING METHOD: Sonic

DATE STARTED:

6/3/2011 12:30:00 PM

COORDINATES:

DATE COMPLETED: 6/6/2011

Northing: Easting:

			TOC Elevation:					
DEPTH	SOIL	SOIL DESCRIPTION	SAMPLE	SUDAN	PID	WELL CONSTRUCTION DETAILS		
	SYMBOLS		ID	IV	(ppm)			
0 1								
		SILTY CLAY: ML-CL SILTY CLAY, common gravels, fine-medium sands, slightly moist, 10YR 4/4,	MW-1105-S3/4-01		0		Flush Mount- Concrete	
		Dark yellowish brown; grain size increasing at 2.5' to include medium-coarse sands, common-many	MW-1105-\$3/4-02		0		PVC	
5-		gravels, few cobbles.	MW-1105-\$3/4-03		0		grout	
		SILTY SAND: SM-ML SILTY SAND, common-	MW-1105-83/4-04		0.4		-	
10		many gravels, few cobbles, medium-coarse sand, 10YR 5/6, Yellowish brown.	MW-1105-83/4-05		0.3		-	
		CLAYEY SILT: ML-CL CLAYEY SILT Gray,	MW-1105-S3/4-06		0.6	BE		
		moist, slightly plastic, few gravels, common medium- coarse sands variegated pattern of 10YR 5/4	MW-1105-83/4-07		1			
15 -		Yellowish brown and 10YR 5/1.	MW-1105-S3/4-08		0.5			
] ]:		SAND: SM-SP medium-coarse SAND few-common gravels, slightly moist, 10YR 6/1 gray; yery moist-	MW-1105-S3/4-09		0			
20		wet at 13.5'; layer of fine sand from 13.5'-13.7' and	MW-1105-S3/4-10	,	0			
207		SAND: SM-SP medium-coarse SAND few-common	MW-1105-53/4-11		0	目目	-	
] [		gravels, color change to 10YR 5/4 Yellowish brown at 14.6'-17'; color change to 10YR 5/1 Gray from 17'-	MW-1105-S3/4-12		0			
25	tortist signification	24.5', loose and wet throughout this interval, fine sand from 17.2'-17.6' and 18.5'-20.5'.	MW-1105-83/4-13		0			
] [		CLAYEY SILT; ML CLAYEY SILT, few medium-	MW-1105-S3/4-14		0			
30-		coarse sands, trace gravels, dense, slightly moist, 10YR 5/1 Grav.	MW-1105-S3/4-15		0	BE		
]		SAND: SAND medium-coarse, common gravels,	MW-1105-S3/4-16		0			
		very moist, loose, 10YR 5/1 Gray; fine-medium sand from 28'-29'.	MW-1105-\$3/4-17		0			
35		1000 25 .	MW-1105-S3/4-18	J .	0		-	
		CLAYEY SILT: ML CLAYEY SILT, few medium- coarse sands, trace gravels, dense, slightly moist,	MW-1105-S3/4-19		1.9			
		10YR 5/1 Gray; dry and hard at 35'.	MW-1105-53/4-20		2.8		<u> </u>	
40-		<i></i>	MW-1105-53/4-21		4.1			
] [i		SILTY SAND: SM SILTY SAND, fine, few pebbles, few gravels, trace clays, slightly moist, 10YR 5/1	MW-1105-S3/4-22		3.6			
45		Grey; increasing moisture with depth; decrease in pebbles/gravels with depth.	MW-1105-S3/4-23		4	目目		
407		SILTY CLAY: ML-CL SILTY CLAY (till), few	MW-1105-S3/4-24		1.2			
		gravels, trace pebbles, trace medium sands, hard, slightly plastic, 10YR 5/1 Grey; sand lens from 47'-	MW-1105-\$3/4-25		0.8		-	
50-		47.5', medium-coarse, slightly moist-moist gravels.	MW-1105-S3/4-26		2		-	



## WELL CONSTRUCTION LOG

WELL NO.:

MW-1105-S3/4

TOTAL DEPTH: 95.00

DDA	ILCT	<b>INFORMATION</b>	
PRU	コーしょし	INFURIMATION	

**DRILLING INFORMATION** 

PROJECT:

**GM/ENCORE** (Allison Transmission)

SITE LOCATION:

Speedway, IN

DRILLING CO.:

WDC

LOGGED BY:

Randall Woodruff and Tim PorteDRILLING METHOD: Sonic

**Russ Knotts** 

DATE STARTED:

6/3/2011 12:30:00 PM

**COORDINATES:** 

DATE COMPLETED: 6/6/2011

Northing:

DRILLER:

Easting:

·			Easting: TOC Elevation:					
DEPTH S	SOIL SYMBOLS	SOIL DESCRIPTION	SAMPLE ID	SUDAN IV	PID (ppm)		ONSTRUCTION DETAILS	
55 60 65 70 75 80 85 90 95	Partition Here	SILTY SAND: Clayey SILTY SAND, wet, moist, soft, sticky, 10YR 5/1 Grey.  SILTY CLAY: ML-CL SILTY CLAY (till), pebbles, hard, non-plastic, 10YR 5/1 Grey; sand lens from 80'-80.25, fine, grey, slightly moist; sand lens from 88'-89.25, medium-coarse, slightly moist, silt and clay, gravels. End of boring at 95.0.	MW-1105-S3/4-27 MW-1105-S3/4-28 MW-1105-S3/4-29 MW-1105-S3/4-30 MW-1105-S3/4-31 MW-1105-S3/4-32 MW-1105-S3/4-34 MW-1105-S3/4-35 MW-1105-S3/4-36 MW-1105-S3/4-37 MW-1105-S3/4-37 MW-1105-S3/4-39 MW-1105-S3/4-39 MW-1105-S3/4-40 MW-1105-S3/4-40 MW-1105-S3/4-40 MW-1105-S3/4-44 MW-1105-S3/4-44		1.7 0.4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		bentonite-pellets sand pack PVC sch 40 bentonite-pellets	